

IN THE CLAIMS:

Please accept amended claims 29, 58 and 59 as follows:

1.- 28. (canceled)

29. (Currently Amended) An entertainment unit for a vehicle, comprising:  
an assembly housing disposed in an interior of the vehicle;  
a bus adapted to couple at least one of video and audio signals from each of  
a plurality of input devices, wherein said bus comprises a video bus and an audio  
bus;

at least one display device, houseable in said assembly and operatively  
coupled to said bus, adapted to reproduce the video signals;

at least two wireless transmitters operatively coupled to said audio bus,  
adapted to wirelessly and simultaneously transmit a plurality of audio programs to a  
plurality of remotely located wireless headphone sets, wherein said at least two  
wireless transmitters each comprise at least one multiplexor adapted to select,  
through a SELECT (SEL) input, an input device of the plurality of input devices  
whose audio output is to be wirelessly transmitted, and wherein the at least two  
wireless transmitters are each wired to the audio bus to receive the audio signals  
from each of the plurality of input devices via the audio bus at a first input position,  
and are each wired to directly receive the SEL input at a second input position on  
each of the at least two wireless transmitters prior to wireless transmission to the  
remotely located wireless headphone sets, the at least two wireless transmitters  
each having multiplexing capabilities;

signal processing facilities adapted to perform at least one of signal processing and signal conversion, with respect to at least one of the audio signals and the video signals, wherein an antenna of the vehicle is coupled to the signal processing facilities, the signal processing facilities receiving input signals from the antenna and outputting at least one of processed or converted signals to the video and audio buses, wherein the signal processing facilities receive audio and video signals to be processed from the plurality of input devices via the same audio and video buses through which the signal processing facilities output the processed or converted signals of the antenna; and

a splitter connected to the audio bus, wherein the splitter splits the audio signals and provides the audio signals to both of the at least two wireless transmitters.

30. (Previously Presented) The entertainment unit according to claim 29, wherein the wireless signals are at least one of radio frequency and infrared signals.

31. (Previously Presented) The entertainment unit according to claim 29, wherein the plurality of input devices comprise at least one of a television tuner, a video cassette player (VCP), a compact disk (CD) player, a digital video disk (DVD) player, an AM/FM radio, and a video game player.

32. (Previously Presented) The entertainment unit according to claim 29, wherein the plurality of input devices comprises an external audio/video signal

processor adapted to input at least one of the audio signals and the video signals from an external source.

33. (Previously Presented) The entertainment unit according to claim 32, wherein the external source is a portable media device.

34. (Canceled)

35. (Previously Presented) The entertainment unit according to claim 29, wherein said at least one display device is mounted in said entertainment unit in one of a non-fixed configuration and a fixed configuration.

36. (Previously Presented) The entertainment unit according to claim 29, wherein said at least one display device employs one of a liquid crystal display (LCD), light emitting diodes (LEDs), and a gas plasma.

37. (Previously Presented) The entertainment unit according to claim 29, wherein said at least one display device employs touch screen technology.

38. (Previously Presented) The entertainment unit according to claim 29, wherein said at least one display device includes one of picture-in-picture and split screen capability.

39. (Canceled)

40. (Previously Presented) The entertainment unit according to claim 29, wherein said at least two wireless transmitters are each adapted to wirelessly transmit the plurality of audio programs to each of the plurality of wireless headphone sets as a left audio channel and a right audio channel.

41. (Previously Presented) The entertainment unit according to claim 40, wherein the left audio channel and the right audio channel correspond to different frequencies.

42. (Previously Presented) The entertainment unit according to claim 29, wherein said at least two wireless transmitters are each adapted to wirelessly transmit the plurality of audio programs to each of the plurality of wireless headphone sets as a left audio channel and a right audio channel, each of the channels having a different frequency for each of the plurality of wireless headphone sets.

43. (Previously Presented) The entertainment unit according to claim 29, wherein said at least two wireless transmitters each comprise an optical transmitting device and at least one of said plurality of wireless headphone sets comprises a photosensitive device.

44. (Previously Presented) The entertainment unit according to claim 29, wherein said at least two wireless transmitters and at least one of said plurality of wireless headphone sets comprise an antenna.

45. (Previously Presented) The entertainment unit according to claim 29, wherein at least one of said plurality of wireless headphone sets comprises a digital-to-analog converter.

46. – 47. (Canceled)

48. (Previously Presented) The entertainment unit according to claim 29, wherein said at least two wireless transmitters are capable of simultaneously transmitting the plurality of audio programs at different respective frequencies.

49. (Previously Presented) The entertainment unit according to claim 48, wherein said plurality of wireless headphone sets are capable of receiving on a plurality of channels the plurality of audio programs transmitted at the different respective frequencies.

50. (Canceled)

51. (Previously Presented) The entertainment unit according to claim 29, further comprising at least one other display device operatively coupled to said bus.

52. (Previously Presented) The entertainment unit according to claim 51, wherein the at least one other display device is capable of displaying a first video program from one of said plurality of input devices at the same time the at least one display device displays a second video program from another one of said plurality of input devices.

53. (Previously Presented) The entertainment unit according to claim 51, wherein:

the at least one other display device includes at least one other wireless transmitter operatively coupled to said audio bus; and

the at least one other wireless transmitter is capable of transmitting a first audio program from one of said plurality of input devices at the same time at least one of the other two wireless transmitters transmits a second audio program from another one of said plurality of input devices.

54. (Previously Presented) The entertainment unit according to claim 53, wherein the first audio program is transmitted on a first frequency and the second audio program is transmitted on a second frequency.

55. (Previously Presented) The entertainment unit according to claim 51, wherein the at least one other display device is positioned remote from the assembly housing.

56. (Previously Presented) The entertainment unit according to claim 29, wherein a first transmitter of the at least two wireless transmitters is capable of transmitting a first audio program from one of said plurality of input devices at the same time a second transmitter of the at least two wireless transmitters transmits a second audio program from another one of said plurality of input devices.

57. (Previously Presented) The entertainment unit according to claim 56, wherein the first audio program is transmitted on a first frequency and the second audio program is transmitted on a second frequency.

58. (Currently Amended) An entertainment unit for a vehicle, comprising:  
an assembly housing disposed in an interior of the vehicle;  
a video bus adapted to couple video signals from at least some of a plurality of input devices;  
an audio bus adapted to couple audio signals from at least some of the plurality of input devices;  
at least one display device, houseable in said assembly and operatively coupled to said video bus, adapted to reproduce the video signals;  
two wireless transmitters operatively coupled to said audio bus, adapted to wirelessly and simultaneously transmit a plurality of audio programs from at least some of the plurality of input devices to a plurality of remotely located wireless headphone sets, wherein said wireless transmitters each comprise at least one

multiplexor adapted to select, through a SELECT (SEL) input, an input device of the plurality of input devices whose audio output is to be wirelessly transmitted, and wherein the two wireless transmitters are each wired to the audio bus to receive the audio signals from each of the plurality of input devices coupled to the audio bus, via the audio bus at a first input position, and are each wired to directly receive the SEL input at a second input position on each of the two wireless transmitters prior to wireless transmission to the remotely located wireless headphone sets, the two wireless transmitters each having multiplexing capabilities;

signal processing facilities adapted to perform at least one of signal processing and signal conversion, with respect to at least one of the audio signals and the video signals, wherein an antenna of the vehicle is coupled to the signal processing facilities, the signal processing facilities receiving input signals from the antenna and outputting at least one of processed or converted signals to the video and audio buses, wherein the signal processing facilities receive audio and video signals to be processed from the plurality of input devices via the same audio and video buses through which the signal processing facilities output the processed or converted signals of the antenna; and

a splitter connected to the audio bus, wherein the splitter splits the audio signals and provides the audio signals to both of the two wireless transmitters.

59. (Currently Amended) An entertainment unit for a vehicle, comprising:  
an assembly housing disposed in an interior of the vehicle;  
an audio bus adapted to couple audio signals from at least two input devices;

two wireless transmitters operatively coupled to said audio bus, adapted to wirelessly and simultaneously transmit the audio signals from the at least two input devices to at least two remotely located wireless headphone sets, so that each wireless headphone set receives an audio signal from a different one of the at least two input devices, wherein said two wireless transmitters each comprise at least one multiplexor adapted to select, through a SELECT (SEL) input, an input device of the at least two input devices whose audio output is to be wirelessly transmitted, and wherein the two wireless transmitters are each wired to the audio bus to receive the audio signals from each of the at least two input devices via the audio bus at a first input position, and are each wired to directly receive the SEL input at a second input position on each of the two wireless transmitters prior to wireless transmission to the remotely located wireless headphone sets, the two wireless transmitters each having multiplexing capabilities;

signal processing facilities adapted to perform at least one of signal processing and signal conversion, with respect to the audio signals, wherein an antenna of the vehicle is coupled to the signal processing facilities, the signal processing facilities receiving input signals from the antenna and outputting at least one of processed or converted signals to the audio bus, wherein the signal processing facilities receive audio signals to be processed from the at least two input devices via the same audio bus through which the signal processing facilities output the processed or converted signals of the antenna; and

a splitter connected to the audio bus, wherein the splitter splits the audio signals and provides the audio signals to both of the two wireless transmitters.